PATENT COOPERATION TREATY

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Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's o	r agent's file refer	EDCE				
D8096	6PC		FOR FURTHER	ACTION	See Form PCT/IP	EA/416
International application No.			International filing	date (day/month/year)	Priority date (day)	(month/year)
PCT/EP2004/003211 26.03.		26.03.20	04	28.03.20	003	
International	Patent Classificati	ion (IPC) or natio	onal classification an	d IPC		
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			inary examination r		s International Prelimi	inary Examining Authority
2. This	REPORT consist	s of a total of	1	sheets, includ	ing this cover sheet.	
3. This	report is also acc	ompanied by AN	NEXES, comprising	3		
<u>.</u> [(sent to the	s applicant and t	o the International E	tureau) a total of 5		sheets, as follows:
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	Box No. VII	Certain defect	s in the international	application		
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/003211

Box No	. I	Basis of the report	- <u></u>						
1. W	 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 								
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:								
	international search (Rule 12.3 and 23.1(b))								
		publication of the international application (Rule 12.4)							
		nternational preliminary examination (Rule \$5.2 and/or \$5.3)							
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/003211

Bo		ent under Article 35(2) with anations supporting such s	regard to novelty, inventive step or industrial applicability; tatement	
1.	Statement			
	Novelty (N)	Claims	13	YES
		Claims	1-12, 14	NO
	Inventive step (IS)	Claims	13	YES
		Claims	1-12, 14	NO
	Industrial applicability (IA)	Claims	1-14	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

D1: WO 02/79269 A

D2: US 2001/0007043 A

D3: W096/40809 A

The present application relates to a method for separating monomers with at least one double bond from a composition Z containing this monomer and at least 0.001 % by weight water as an impurity different from the monomer, with the method comprising the following steps:

Z is brought into contact with an additive having a melting point of no more than 150 °C and a vapour pressure at 20 °C of no more than 1 mbar, in such a way that a separation phase is formed and the monomer is separated from this separation phase.

Document D1 is the closest prior art document and discloses (see the passages cited in the international search report) the separation of a monomer from a polymer in the presence of an ionic fluid as additive, wherein the polymer is precipitated and eliminated. The additives used have melting points of between -72 °C and 62 °C. . Examples of the monomers used include metacrylic acid and

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/003211

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

acrylic acid. Furthermore, during the polymerisation according to example 4 benzene is used as solvent. According to the Fluka Chemikalien-Katalog (1997/98), page 185, the concentration of water in absolute-purity benzene (Fluka No. 12553) over a molecular sieve is ≤ 0.005%. Since the main component of the reaction mixture Z is benzene (10 mL), it is assumed that the mixture contains at least 0.001 % by weight water as impurity. Consequently, the subject matter of claims 1 and 14 is considered not novel over document D1.

Claims 2-12 contain no features which, combined with the features of any claim to which they refer, meet the PCT requirements for novelty and inventive step.

Claim 13 concerns a device for synthesising a monomer. Document D2 (see the passages cited in the international search report) is the closest prior art document and differs from the subject matter of claim 13 in that only three inflows and outflows are present in the contact region and in that there is no outflow (6).

Proceeding from document D2, this additional feature is not considered obvious to a person skilled in the art.

Consequently, the subject matter of claims 1-12 and 14 does not satisfy the requirements of PCT Article 33(2). The subject matter of claim 13 meets the requirements of PCT Article 33(2) and (3).